



2183

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

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		Application No.	09/847,068
		Filing Date	May 1, 2001
		First Named Inventor	Yoav Almog
		Art Unit	2183
		Examiner Name	Gole, Amol V.
Total Number of Pages in This Submission	14	Attorney Docket Number	42390P10913

APR 22 2004
Technology Center 2100

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment / Response	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	<input type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s)	
<input type="checkbox"/> PTO/SB/08		
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Basic Filing Fee		
<input type="checkbox"/> Declaration/POA		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		
ROA includes replacement Abstract		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

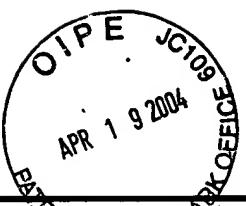
Firm or Individual name	Walter T. Kim, Reg. No. 42,731 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	April 15, 2004

CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Typed or printed name	Marilyn Bass
Signature	
Date	April 15, 2004

Based on PTO/SB/21 (02-04) as modified by Blakely, Sokoloff, Taylor & Zafman (wlr) 02/10/2004.
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



FEES TRANSMITTAL for FY 2004

Effective 01/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$)

Complete if Known

Application Number	09/847,068
Filing Date	May 1, 2001
First Named Inventor	Yoav Almog
Examiner Name	Gole, Amol V.
Art Unit	2183
Attorney Docket No.	42390P10913

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METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account Number **02-2666**

Deposit Account Name **Blakely, Sokoloff, Taylor & Zafman LLP**

The Commissioner is authorized to: (check all that apply)

- Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or underpayment of fees as required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		FeePaid
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1001	770	2001	385	Utility filing fee
1002	340	2002	170	Design filing fee
1003	530	2003	265	Plant filing fee
1004	770	2004	385	Reissue filing fee
1005	160	2005	80	Provisional filing fee
SUBTOTAL (1)		(\$)		

2. EXTRA CLAIM FEES

Total Claims	Independent Claims	Extra Claims	Fee from below	FeePaid
		- 20" = 	X = 	
	3	= 	X = 	

Multiple Dependent

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple Dependent claim, if not paid
1204	86	2204	43	"Reissue independent claims over original patent
1205	18	2205	9	"Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$)		

*or number previously paid, if greater. For Reissues, see below

3. ADDITIONAL FEES

Large Entity	Fee Code	Fee (\$)	Small Entity	Fee Code	Fee (\$)	Fee Description	FeePaid
	1051	130		2051	65	Surcharge - late filing fee or oath	
	1052	50		2052	25	Surcharge - late provisional filing fee or cover sheet	
	2053	130		2053	130	Non-English specification	
	1812	2,520		1812	2,520	For filing a request for ex parte reexamination	
	1804	920 *		1804	920 *	Requesting publication of SIR prior to Examiner action	
	1805	1,840 *		1805	1,840 *	Requesting publication of SIR after Examiner action	
	1251	110		2251	55	Extension for reply within first month	
	1252	420		2252	210	Extension for reply within second month	
	1253	950		2253	475	Extension for reply within third month	
	1254	1,480		2254	740	Extension for reply within fourth month	
	1255	1,210		2255	605	Extension for reply within fifth month	
	1404	330		2401	165	Notice of Appeal	
	1402	330		2402	165	Filing a brief in support of an appeal	
	1403	290		2403	145	Request for oral hearing	
	1451	1,510		2451	1,510	Petition to institute a public use proceeding	
	1452	110		2452	55	Petition to revive - unavoidable	
	1453	1,330		2453	665	Petition to revive - unintentional	
	1501	1,330		2501	665	Utility issue fee (or reissue)	
	1502	480		2502	240	Design issue fee	
	1503	640		2503	320	Plant issue fee	
	1460	130		2460	130	Petitions to the Commissioner	
	1807	50		1807	50	Processing fee under 37 CFR 1.17(q)	
	1806	180		1806	180	Submission of Information Disclosure Stmt	
	8021	40		8021	40	Recording each patent assignment per property (times number of properties)	
	1809	770		1809	385	Filing a submission after final rejection (37 CFR § 1.129(b))	
	1810	770		2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
	1801	770		2801	385	Request for Continued Examination (RCE)	
	1802	900		1802	900	Request for expedited examination of a design application	
Other fee (specify)							

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

Name (Print/Type)	Walter T. Kim	Registration No. (Attorney/Agent)	42,731	Telephone	(310) 207-3800
Signature	<i>Walter T. Kim</i>			Date	04/15/04

Based on PTO/SB/17 (10-03) as modified by Blakely, Sokoloff, Taylor & Zafman (wir) 02/10/2004.
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Attorney's Docket No. 42390.P10913

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Yoav Almog et al.

Application No.: 09/847,068

Filed: May 1, 2001

For: **SPECULATIVE BRANCH TARGET ALLOCATION**

Examiner: Gole, Amol V.

Art Unit: 2183

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APR 22 2004

Technology Center 2100

AMENDMENT AND RESPONSE TO OFFICE ACTION

Mail Stop Non-Fee Amendment
Commissioner for Patents
P. O. 1450
Alexandria, VA 22313-1450

Dear Commissioner:

In response to an Office Action having a mailing date of February 20, 2004, please amend the above-identified patent application as follows and consider the following remarks.

IN THE TITLE

Please change the title to:

SPECULATIVE BRANCH TARGET ALLOCATION USING A SEPARATE CACHE
FOR STORING SPECULATIVE TARGETS

IN THE ABSTRACT

Please replace the Abstract with the following new Abstract:

A method and apparatus are described for improving branch prediction. The method includes determining a target of a branch instruction and storing the target of the branch instruction before the branch instruction is fully executed. The method further includes re-encountering the branch instruction and predicting a target for the branch instruction by accessing the stored target for the branch instruction.